



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010470
CERTIFICATION DATE: December 5, 2013
DATE RECERTIFICATION DUE: June 3, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

Melissa Kennedy

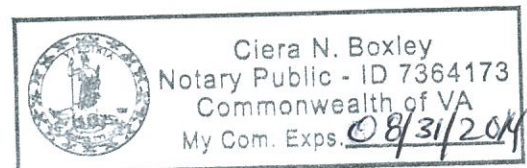
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 12th day of December, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLN



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 12/9/2013

HMS
MSK

Instrument Serial Number: 010470

As of 09-Dec-13

Maintenance Date	Certification Date	Technician Initials	Remarks
05-Dec-13	05-Dec-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
18-Jun-13	18-Jun-13	HMS (18910)	CERTIFIED
09-Jan-13	09-Jan-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
18-Jul-12	18-Jul-12	HMS (18910)	CERTIFIED
28-Mar-12	01-Feb-12	HMS (18910)	REPLACED PRINTER.
01-Feb-12	01-Feb-12	HMS (18910)	REPLACED PRINTER RIBBON, CERTIFIED
09-Aug-11	09-Aug-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
22-Feb-11	22-Feb-11	RJP (22428)	CERTIFIED.
09-Sep-10	09-Sep-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
23-Mar-10	23-Mar-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
06-Oct-09	06-Oct-09	RJP (22428)	CERTIFIED.
22-Apr-09	22-Apr-09	RJP (22428)	CERTIFIED.
13-Apr-09	13-Apr-09	NMJ (22392)	FIRMWARE / SOFTWARE UPGRADE, CERTIFIED.
06-Apr-09	06-Apr-09	RJP (22428)	REPLACED TANK TOP LID. CERTIFIED.
29-Oct-08	29-Oct-08	RJP (22428)	CERTIFIED.
20-Oct-08	20-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

INTOX EC/IR II
Quality Assurance Worksheet

AMS
MK

Instrument Serial Number **010470** Worksheet Start Date **12/5/2013**

Location **Rockbridge County**

Address **258 Greenhouse Rd., Lexington, VA 24450**

DFS Technician **Heather Stanton** License No. **18910**

☐ Laboratory ☒ On-Site

Site Specifications

Yes No

1 Secured Environment:

Location must not be accessible to the general public.

☒ ☐

2 Environment free from contaminants

☒ ☐

3 Dedicated telephone line:

The phone line should be used solely by the instrument.

☒ ☐

4 Adequate Ventilation:

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒ ☐

5 Stable temperature controls:

The instrument should not be exposed to direct sources of temperature variation.

☒ ☐

6 115VAC power source:

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒ ☐

7 Room Condition:

The site should be free of excessive moisture, heat and dust.

☒ ☐

Old serial no.	New serial no.	Supplies	
E-Seek		Mouthpieces	50
Keyboard		Certificates of Analysis	50
Printer		Operator Worksheet	2 pads
UPS		Other:	

Maintenance (if any)

Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010470

Certification Date 12/5/2013

Instrument Barometer (mm HG) 736

Reference Barometer (mm HG) 735

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.250	0.242	0.234	0.249	Sample 2	0.241
Precision		sample min	sample max	Sample 3	0.241
0		0.241	0.241		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.150	0.145	0.140	0.149	Sample 2	0.145
Precision		sample min	sample max	Sample 3	0.145
0		0.145	0.145		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.080	0.078	0.075	0.081	Sample 2	0.077
Precision		sample min	sample max	Sample 3	0.077
0		0.077	0.077		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.020	0.019	0.016	0.022	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☐ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG219101-04

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.100	0.097	0.094	0.100	Sample 2	0.097
Precision		sample min	sample max	Sample 3	0.097
0		0.097	0.097		

DFS Technician

Heath M. Stark

Date

12/9/13

Issuing Analyst

Melissa Kennedy

Date

12/10/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

TLN

DFS Document 250-F113

Revision 6

Page 2 of 2




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

AMS
MSH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 12/05/2013
TEST EQUIPMENT NUMBER 010470		

RESULTS: TIME SAMPLE TAKEN 08:09 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 09 Dec 2013 at 08:16

Handwritten initials/signature

Test Results

Instrument Serial Number 010470

Test # 000750 Subject Test

Test Location 1 Department of
Test Date 05 Dec 2013

Test Location 2 Forensic Science
Test Time 08:03
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 05 Dec 2013 End Time 08:10

Result Time 08:09

Result Date 05 Dec 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 08:04

Data Type BLK

Sample Value 0.000

Sample Time 08:04

Data Type CHK

Sample Value 0.097

Sample Time 08:05

Data Type BLK

Sample Value 0.000

Sample Time 08:06

Data Type SUBJ

Sample Value 0.000

Sample Time 08:07

Data Type BLK

Sample Value 0.000

Sample Time 08:08

Data Type SUBJ

Sample Value 0.000

Sample Time 08:09

Data Type BLK

Sample Value 0.000

Sample Time 08:10

Standard Type Dry Gas Std

Standard Value 0.097

Standard Lot Number AG219101-04

Standard Expiration Date 07/09/2014

Tank Pressure 776

Barometric Pressure 736 mmHg

Blow Sample Number 1 Blow Duration 3.33 sec

Blow Volume 1746 cc End-of-Blow Time 08:07

Blow Sample Number 2 Blow Duration 3.46 sec

Blow Volume 1787 cc End-of-Blow Time 08:09

Tamper Evident Stamp d5c8a5da

Test Status Code 0

Test Status Success

HMS
max

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010470 Test Number: 751
Test Date: 12/05/2013 Test Time: 08:12 EST

Technician Initials: HMS

Dry Gas Target: 0.097

Lot Number: AG219101-04 Exp Date: 07/09/2014

Tank Pressure: 772 psi Barometric Pressure: 736 mmHg

Test	g/210L	Time
DIAG	Pass	08:12
BLK	0.000	08:13
CHK	0.097	08:13
BLK	0.000	08:15
CHK	0.097	08:15
BLK	0.000	08:16
CHK	0.096	08:17
BLK	0.000	08:18

Success

Standard Value (at sea level): 0.100 g/210L

Certification Status: Success

One point certification done prior to firmware/software upgrade due to certification warning on display.

HMS
12/5/13

AMS
msk

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010470 Test Number: 752

Test Date: 12/05/2013 Test Time: 08:19 EST

Dry Gas Target: 0.097

Lot Number: AG219101-04 Exp Date: 07/09/2014

Tank Pressure: 757 psi Barometric Pressure: 736 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	08:20
CHK	0.096	08:20
BLK	0.000	08:22
CHK	0.096	08:23
BLK	0.000	08:24
CHK	0.096	08:25

Test Status: *Success*

Calibration CRC: C2C85F81

HS
NXX

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010470 Test Number: 753

Test Date: 12/05/2013 Test Time: 08:27 EST

Dry Gas Target: 0.291

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 61 psi Barometric Pressure: 736 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	08:28
CHK	0.289	08:29
BLK	0.000	08:30
CHK	0.288	08:31
BLK	0.000	08:32
CHK	0.288	08:33

Test Status: *Success*

Calibration CRC: C2C85F81

HMS
NWK

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010470

System Date: 12/05/2013

System Time: 09:11 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

ims
msk

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010470 Test Number: 754

Test Date: 12/05/2013 Test Time: 09:13 EST

Dry Gas Target: 0.097

Lot Number: 0651210013-06 Exp Date: 04/01/2014

Tank Pressure: 556 psi Barometric Pressure: 736 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:14
CAL	0.097	09:14

Test Status: *Success*

Calibration CRC: E166735F

HMS
msk

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010470 Test Number: 755

Test Date: 12/05/2013 Test Time: 09:17 EST

Technician Initials: HMS

Dry Gas Target: 0.242

Lot Number: 29612250I2-08 Exp Date: 11/01/2014

Tank Pressure: 198 psi Barometric Pressure: 736 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:17
BLK	0.000	09:18
CHK	0.241	09:19
BLK	0.000	09:20
CHK	0.241	09:21
BLK	0.000	09:23
CHK	0.241	09:24
BLK	0.000	09:25

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010470 Test Number: 756
Test Date: 12/05/2013 Test Time: 09:26 EST

Technician Initials: HMS

Dry Gas Target: 0.145

Lot Number: 29512150I2-02 Exp Date: 11/01/2014

Tank Pressure: 615 psi Barometric Pressure: 736 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:27
BLK	0.000	09:28
CHK	0.145	09:28
BLK	0.000	09:30
CHK	0.145	09:30
BLK	0.000	09:32
CHK	0.145	09:33
BLK	0.000	09:34

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010470 Test Number: 757
Test Date: 12/05/2013 Test Time: 09:35 EST

Technician Initials: HMS

Dry Gas Target: 0.078

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 708 psi Barometric Pressure: 736 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:36
BLK	0.000	09:36
CHK	0.077	09:37
BLK	0.000	09:38
CHK	0.077	09:39
BLK	0.000	09:41
CHK	0.077	09:41
BLK	0.000	09:43

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010470 Test Number: 758
Test Date: 12/05/2013 Test Time: 09:44 EST

Technician Initials: HMS

Dry Gas Target: 0.019

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 811 psi Barometric Pressure: 736 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:44
BLK	0.000	09:45
CHK	0.019	09:46
BLK	0.000	09:47
CHK	0.019	09:48
BLK	0.000	09:49
CHK	0.019	09:50
BLK	0.000	09:51

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

HND
NSK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010470 Test Number: 759

Test Date: 12/05/2013 Test Time: 09:53 EST

Dry Gas Target: 0.291

Lot Number: AG322702-08 Exp Date: 08/15/2015

Tank Pressure: 522 psi Barometric Pressure: 736 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:54
CHK	0.294	09:55
BLK	0.000	09:56
CHK	0.293	09:57
BLK	0.000	09:59
CHK	0.292	10:00

Test Status: *Success*

Calibration CRC: E166735F

thz
msk

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010470 Test Number: 760

Test Date: 12/05/2013 Test Time: 10:02 EST

Dry Gas Target: 0.097

Lot Number: AG219101-04 Exp Date: 07/09/2014

Tank Pressure: 732 psi Barometric Pressure: 735 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:03
CHK	0.097	10:03
BLK	0.000	10:05
CHK	0.097	10:06
BLK	0.000	10:07
CHK	0.097	10:08

Test Status: *Success*

Calibration CRC: E166735F




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

AMS
MS

NAME OF ACCUSED INSTANT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 12/05/2013
TEST EQUIPMENT NUMBER 010470		

RESULTS: TIME SAMPLE TAKEN 10:16 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 09 Dec 2013 at 08:16

AND
NSK

Test Results

Instrument Serial Number 010470

Test # 000761 Subject Test

Test Location 1 Department of
Test Date 05 Dec 2013

Test Location 2 Forensic Science
Test Time 10:09
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M
License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 05 Dec 2013 End Time 10:17

Result Time 10:16

Result Date 05 Dec 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:09

Data Type BLK

Sample Value 0.000

Sample Time 10:10

Data Type CHK

Sample Value 0.097

Sample Time 10:11

Data Type BLK

Sample Value 0.000

Sample Time 10:12

Data Type SUBJ

Sample Value 0.000

Sample Time 10:13

Data Type BLK

Sample Value 0.000

Sample Time 10:14

Data Type SUBJ

Sample Value 0.000

Sample Time 10:16

Data Type BLK

Sample Value 0.000

Sample Time 10:16

Standard Type Dry Gas Std

Standard Value 0.097

Standard Lot Number AG219101-04

Standard Expiration Date 07/09/2014

Tank Pressure 723

Barometric Pressure 735 mmHg

Blow Sample Number 1 Blow Duration 3.55 sec

Blow Volume 1773 cc End-of-Blow Time 10:13

Blow Sample Number 2 Blow Duration 3.51 sec

Blow Volume 1777 cc End-of-Blow Time 10:16

Tamper Evident Stamp 2d427574

Test Status Code 0

Test Status Success